BEST AVAILABLE COPY

Inventors: Lockwood et al. Appl. Ser. No.: 10/629,538 Atty. Dkt.: 5777-00201

In the Claims:

Please amend the claims as follows.

The following lists all claims and their status:

1-1018 (canceled)

1019. (new) A chemical compound comprising a carotenoid derivative having the structure

- 1020. (new) The compound of claim 1019, wherein the carotenoid derivative is at least partially water soluble.
- 1021. (new) The compound of claim 1019, wherein the compound is at least partially water soluble.
- 1022. (new) The compound of claim 1019, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid.
- 1023. (new) The compound of claim 1019, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is astaxanthin.

BEST AVAILABLE COPY

Inventors: Lockwood et al. Appl. Scr. No.: 10/629,538 Atty. Dkt.: 5777-00201

- 1024. (new) The compound of claim 1019, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is beta-carotene.
- 1025. (new) The compound of claim 1019, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is latein.
- 1026. (new) The compound of claim 1019, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is zeaxanthin.
- 1027. (new) The compound of claim 1019, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is canthaxanthin.
- 1028. (new) The compound of claim 1019, wherein the carotenoid derivative is at least partially water dispersible.
- 1029. (new) The compound of claim 1019, wherein the compound is at least partially water dispersible.
- 1030. (new) The compound of claim 1019, wherein the carotenoid derivative is at least partially hydrophylic.
- 1031. (new) The compound of claim 1019, wherein the compound is at least partially hydrophylic.
- 1032. (new) The compound of claim 1019, wherein the carotenoid derivative comprises at least one co-antioxidant.

DEST AVAILABLE COPY

Inventors: Lockwood et al. Appl. Ser. No.: 10/629,538 Atty. Dkt.: 5777-00201

- 1033. (new) 'The compound of claim 1019, wherein the compound comprises at least one co-antioxidant.
- 1034. (new) The compound of claim 1019, wherein the compound is part of a composition.
- 1035. (new) The compound of claim 1019, wherein the compound is part of an aqueous solution.
- 1036. (new) The compound of claim 1019, wherein the compound is part of an oily suspension.
- 1037. (new) The compound of claim 1019, wherein the compound is optically active.
- 1038. (new) The compound of claim 1019, wherein the carotenoid derivative is optically active.
- 1039. (new) A chemical compound comprising a carotenoid derivative having the structure

1040. (new) The compound of claim 1039, wherein the carotenoid derivative is at least partially water soluble.

DEST AVAILABLE COPY

Inventors: Lockwood et al. Appl. Ser. No.: 10/629,538 Atty. Dkt.: 5777-00201

- 1041. (new) The compound of claim 1039, wherein the compound is at least partially water soluble.
- 1042. (new) The compound of claim 1039, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid.
- 1043. (new) The compound of claim 1039, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is astaxanthin.
- 1044. (new) The compound of claim 1039, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is beta-carotene.
- 1045. (new) The compound of claim 1039, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is lutein.
- 1046. (new) The compound of claim 1039, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is zeaxanthin.
- 1047. (new) The compound of claim 1039, wherein the carotenoid derivative is a derivative of a naturally occurring carotenoid, and wherein the naturally occurring carotenoid is canthaxanthin.
- 1048. (new) The compound of claim 1039, wherein the carotenoid derivative is at least partially water dispersible.

BEST AVAILABLE COPY

nventors: Lockwood et al. Appl. Ser. No.: 10/629,538 Auy. Dkt.: 5777-00201

- 1049. (new) The compound of claim 1039, wherein the compound is at least partially water dispersible.
- 1050. (new) The compound of claim 1039, wherein the carotenoid derivative is at least partially hydrophylic.
- 1051. (new) The compound of claim 1039, wherein the compound is at least partially hydrophylic.
- 1052. (new) The compound of claim 1039, wherein the carotenoid derivative comprises at least one co-antioxidant.
- 1053. (new) The compound of claim 1039, wherein the compound comprises at least one co-antioxidant.
- 1054. (new) The compound of claim 1039, wherein the compound is part of a composition.
- 1055. (new) The compound of claim 1039, wherein the compound is part of an aqueous solution.
- 1056. (new) The compound of claim 1039, wherein the compound is part of an oily suspension.
- 1057. (new) The compound of claim 1039, wherein the compound is optically active.
- 1058. (new) The compound of claim 1039, wherein the carotenoid derivative is optically active.